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```

**          **** **          ***          ** * *
IL-7human   MFH..... .VSFRYIFGL PPLILVLLPV ASSDCDIEGK DGKQYESVLM
IL-7sheep   MFH..... .VSFRYIFGI PPLILVLLPV ASSDCDFSGK DGGAYQNVLM
IL-7bovin   MFH..... .VSFRYIFGI PPLILVLLPV ASSDCDISGK DGGAYQNVLM
IL-7mouse   MFH..... .VSFRYIFGI PPLILVLLPV TSSECHIKDK EGKAYESVLM
IL-7rat     MFH..... .VSFRYIFGI PPLILVLLPV TSSDCHIKDK DGKAFGSVLM
ILB50human  MFPFALLYVL SVSFRKIFIL QLVGLVLT.Y DFTNCDFE.K IKAAYLSTIS

```

helix A

```

*          * **          * *
IL-7human   VSIDQLDSM KEIGSNCLNN EFNFFKRHC DANKEGMFLF RAARKLRQFL
IL-7sheep   VSIDDL.DNM INFDSNCLNN EPNFFKKHSC DDNKEASFLN RAARKLKQFL
IL-7bovin   VNIDDL.DNM INFDSNCLNN EPNFFKKHSC DDNKEASFLN RASRKLKQFL
IL-7mouse   ISIDEL.DKM TGTDSNCPNN EPNFFKRKHC DDTKEAAFLN RAARKLKQFL
IL-7rat     ISINQL.DKM TGTDSDCPNN EPNFFKKHLC DDTKEAAFLN RAARKLRQFL
ILB50human  KDLITY...M SGTKSTEFNN TVSCSNRPHC LTEIQSLTFN PTAGCASLAK

```

strand 1 helix B

FIG. 1A

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IL-7human	KMNSTGDFDL	HLLKVSEGT	ILLNCTGQVK	GRKPAALGEA	QPTKSLEENK	*
IL-7sheep	KMNISDDDFKL	HLSTVSQGT	TLLNCTSKGK	GRKPPSLGEA	QPTKNLEENK	
IL-7bovin	KMNISDDDFKL	HLSTVSQGT	TLLNCTSKGK	GRKPPSLSEA	QPTKNLEENK	
IL-7mouse	KMNISEEFNV	HLLTVSQGTQ	TLVNCTSK..	EEK	
IL-7rat	KMNISEEFND	HLLRVSDGTQ	TLVNCTSK..	EEK	
ILB50human	EMFAMKTKAA	LAIWCPGYSE	TQINATQA..	MK	

helix C

IL-7human	SLKEQKKLND	LCFLKRLLQE	IKTCWNKILM	GTKEH
IL-7sheep	SLKEQRKQND	LCFLKILLQK	IKTCWNKILR	GITEH
IL-7bovin	SSKEQKKQND	LCFLKILLQK	IKTCWNKILR	GIKEH
IL-7mouse	NVKEQKK.ND	ACFLKRLLRE	IKTCWNKILK	GSI..
IL-7rat	TIKEQKK.ND	PCFLKRLLRE	IKTCWNKILK	GSI..
ILB50human	KRRKRKVTTN	KCLEQVSQIQ	GLWRRFNRPL	LKQQ.

strand 2 helix D

FIG. 1B

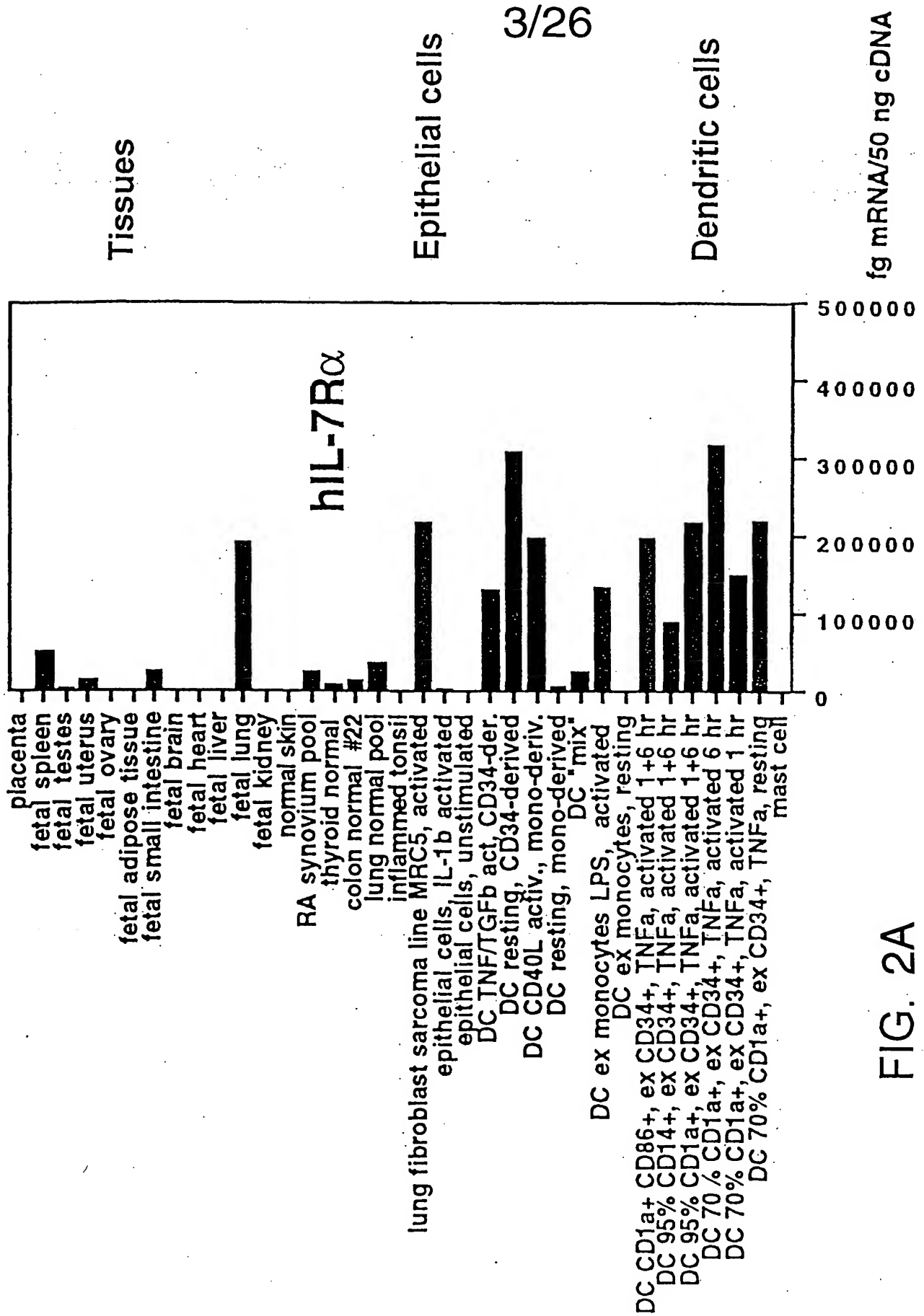


FIG. 2A

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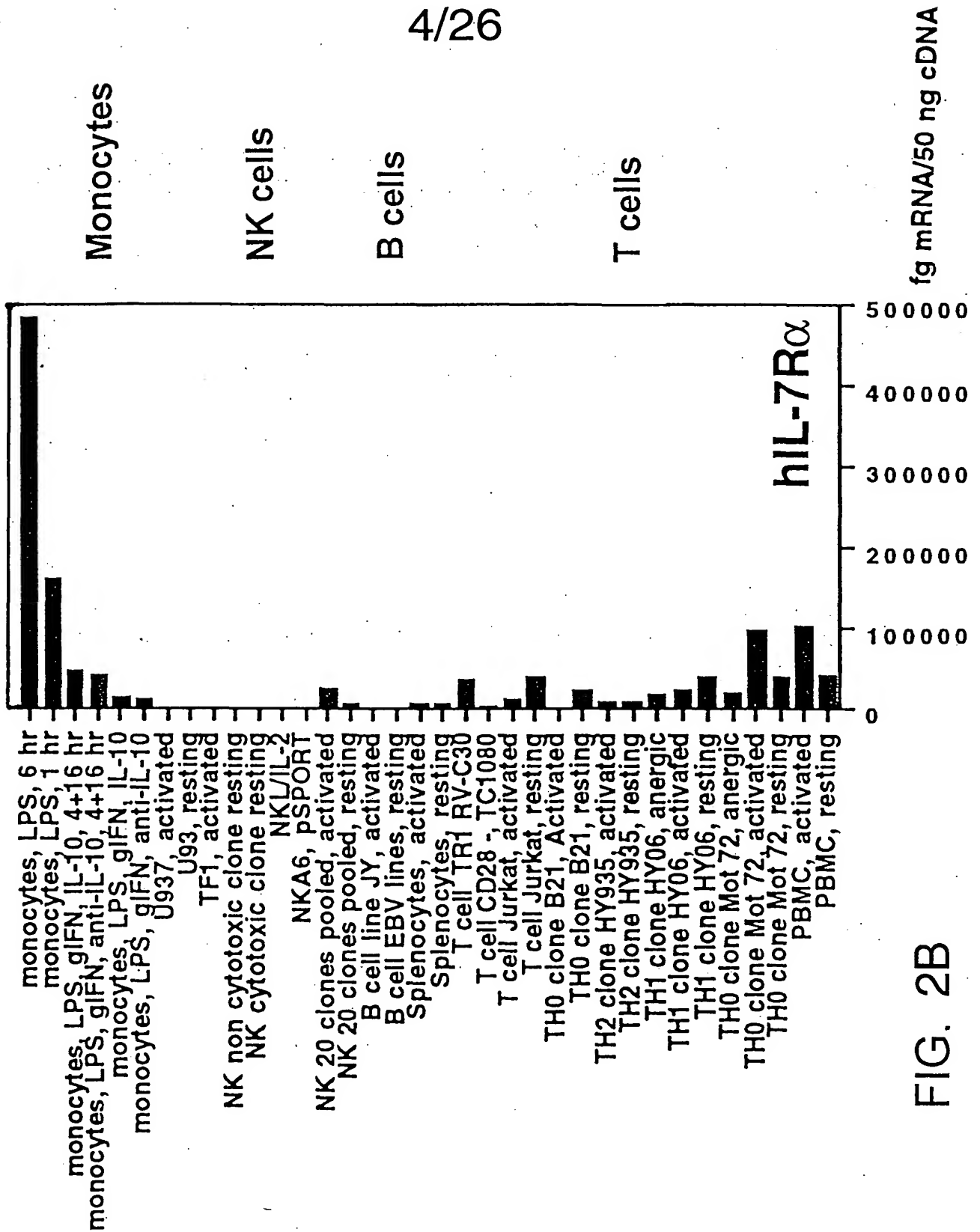


FIG. 2B

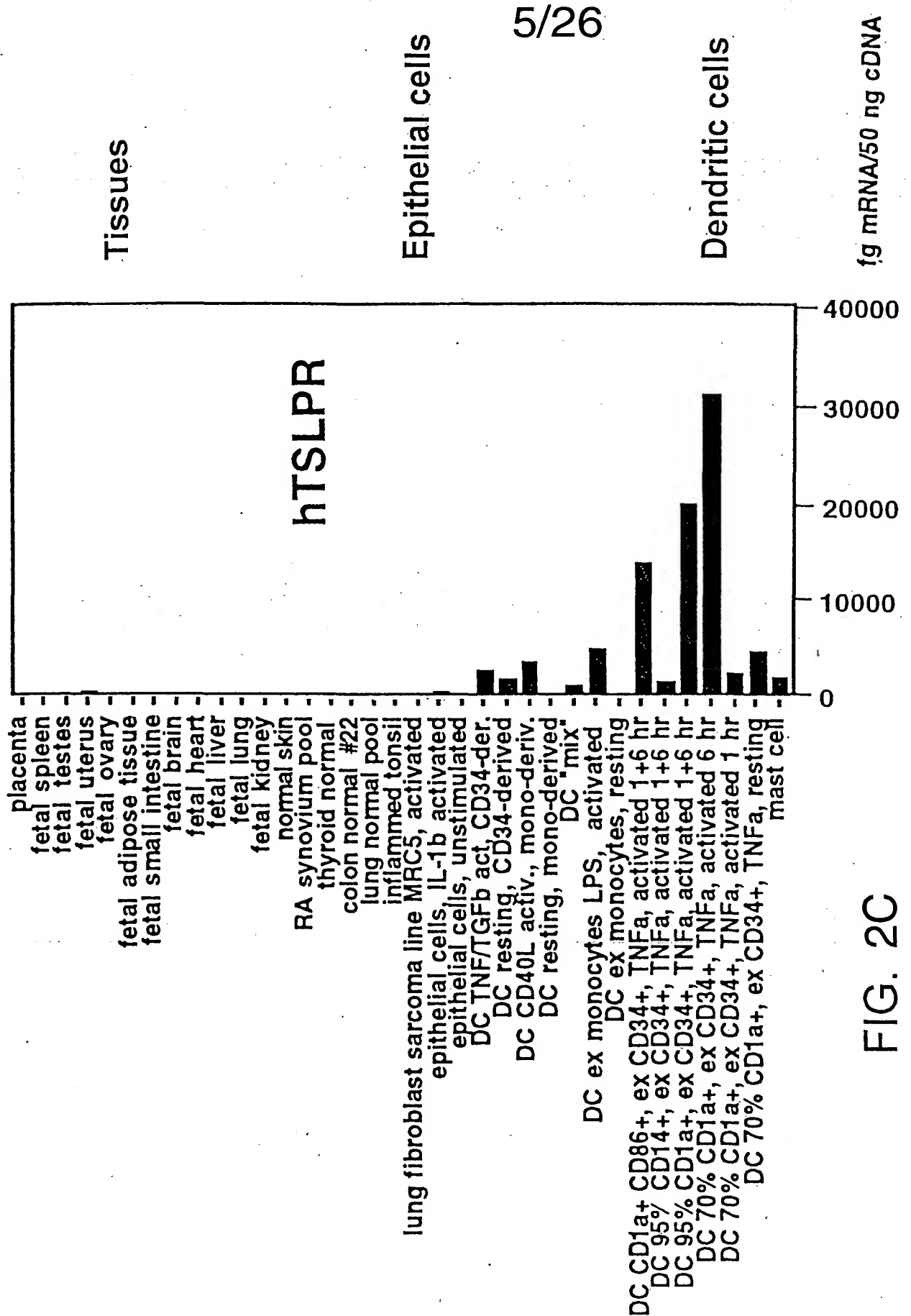


FIG. 2C

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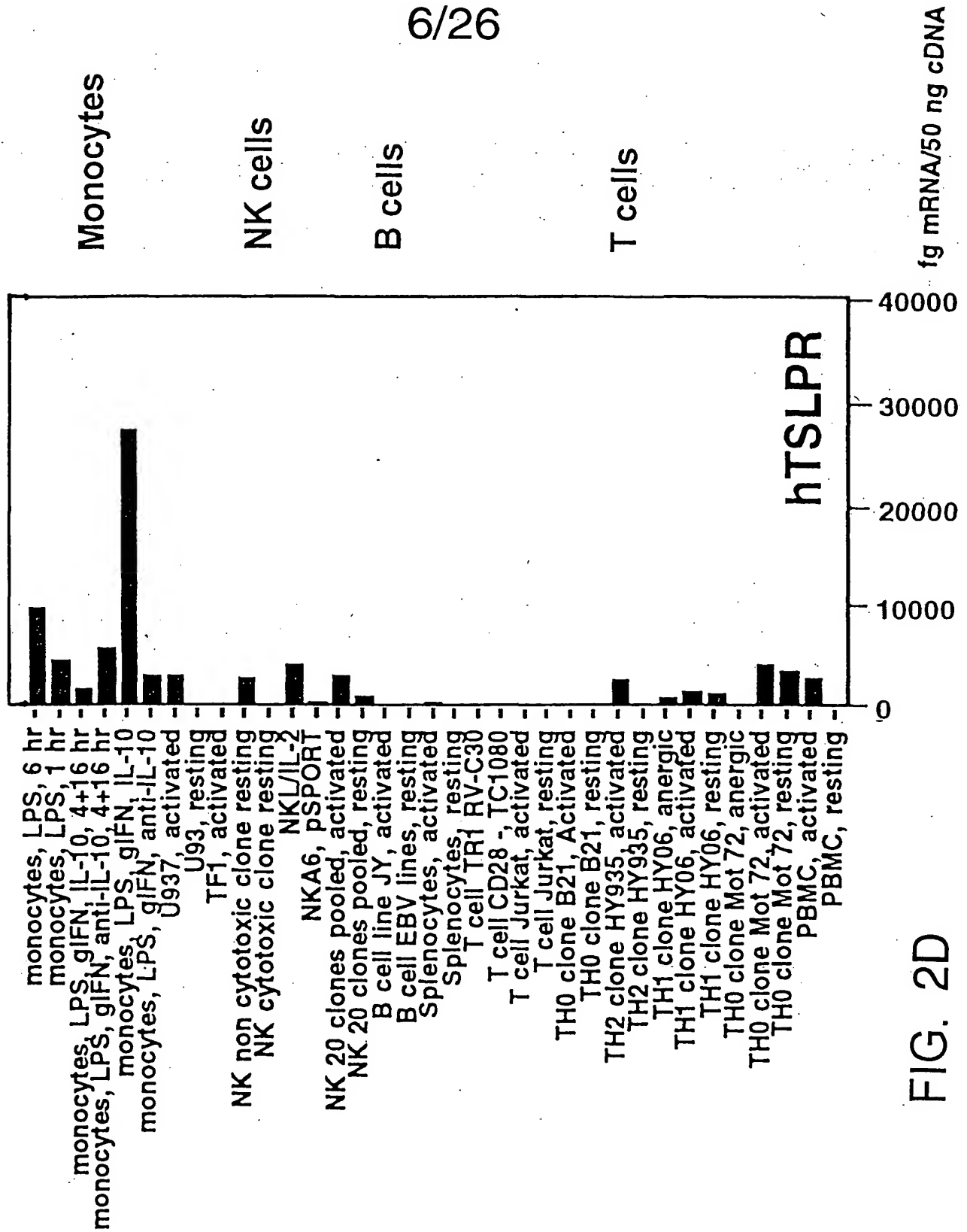


FIG. 2D

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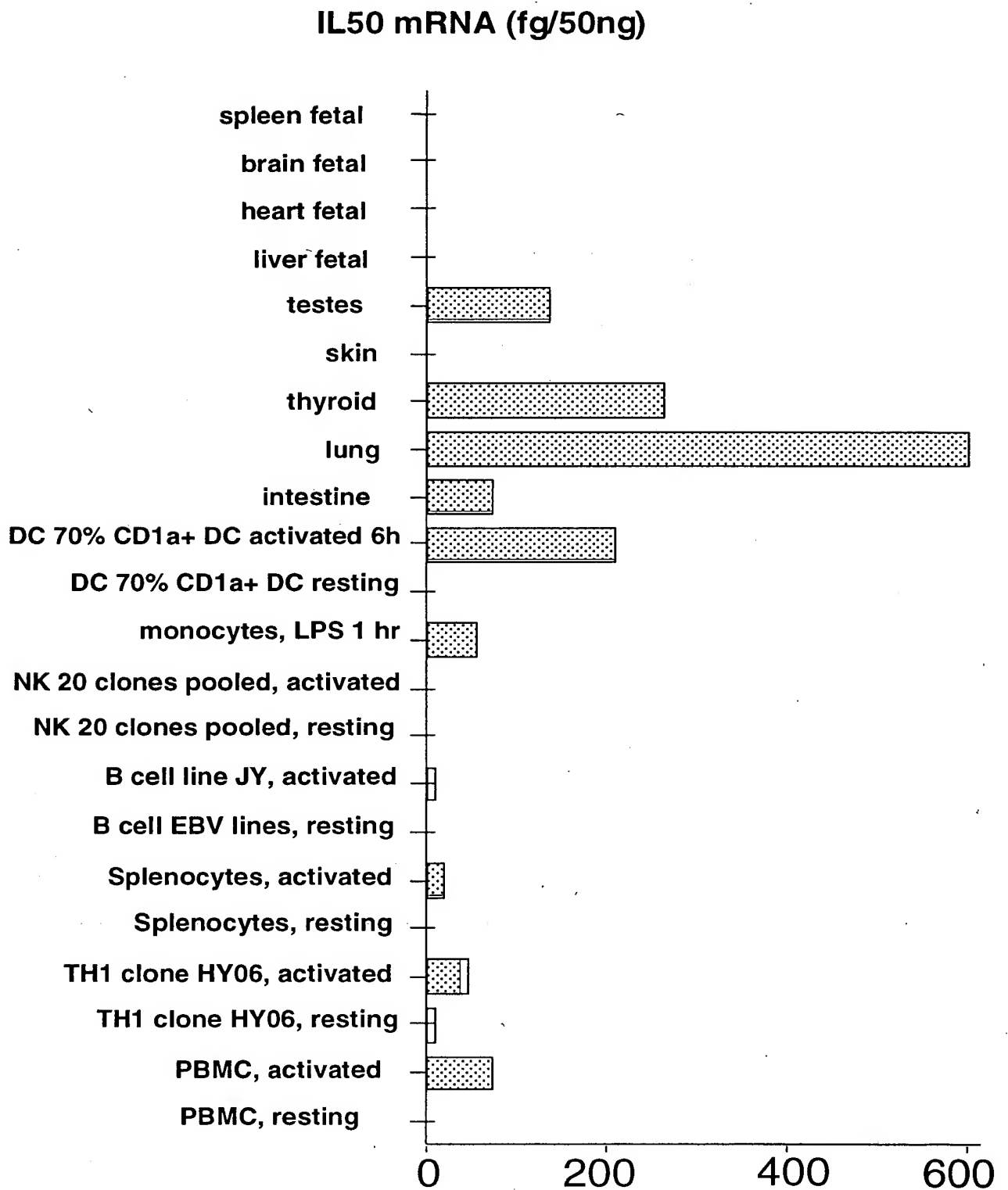


FIG. 2E

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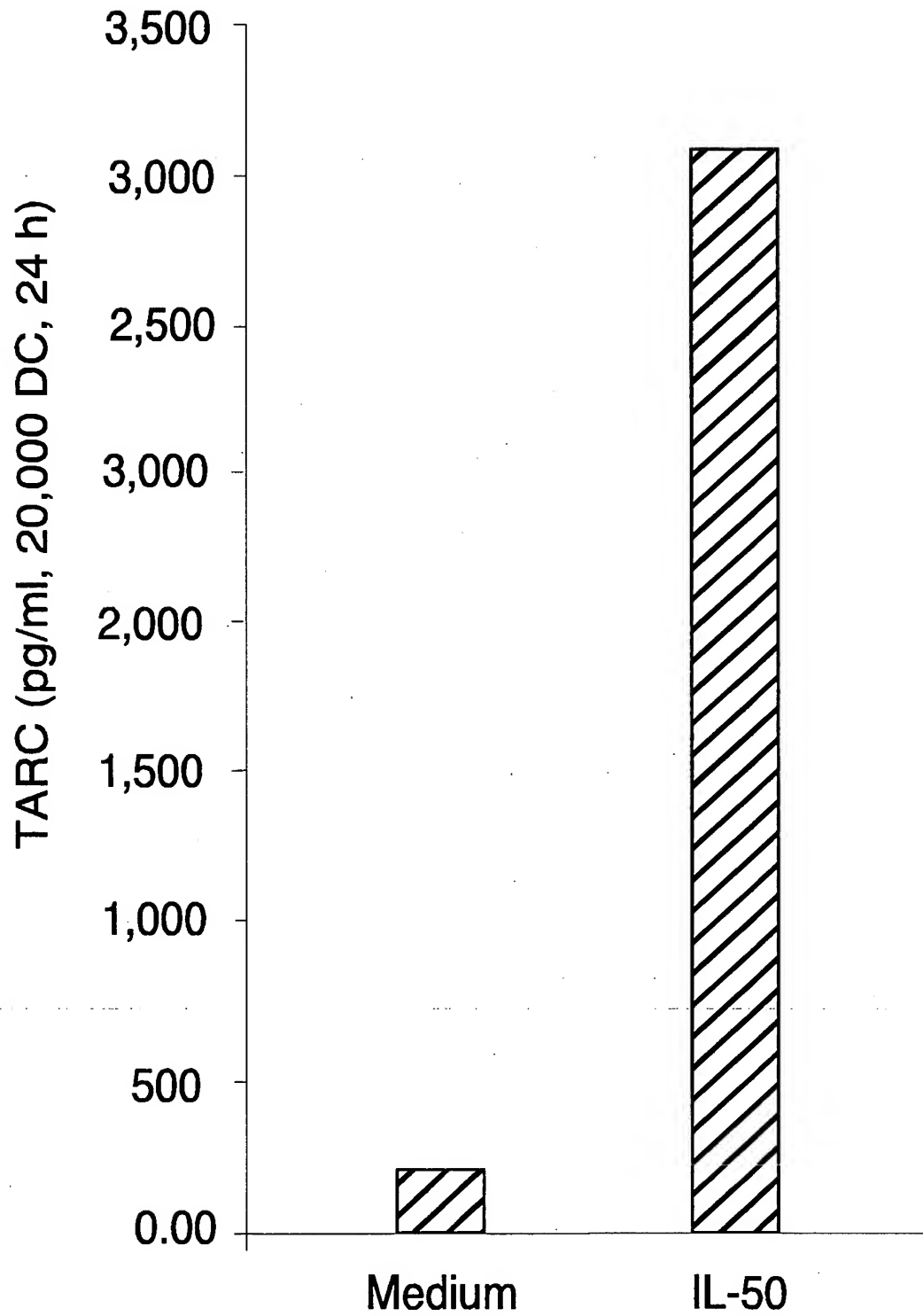


FIG. 3

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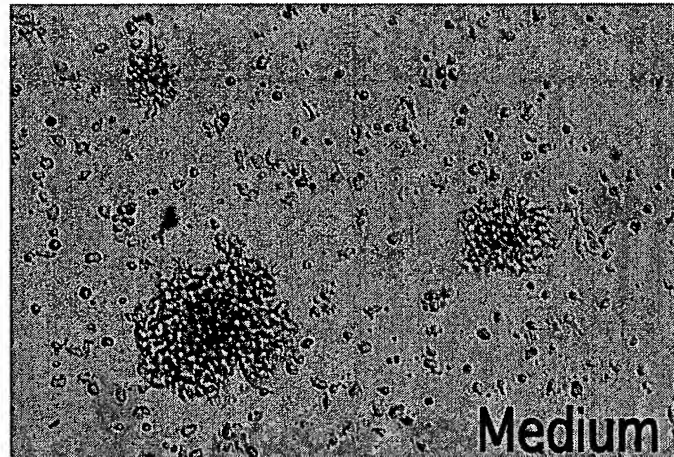


FIG. 4A

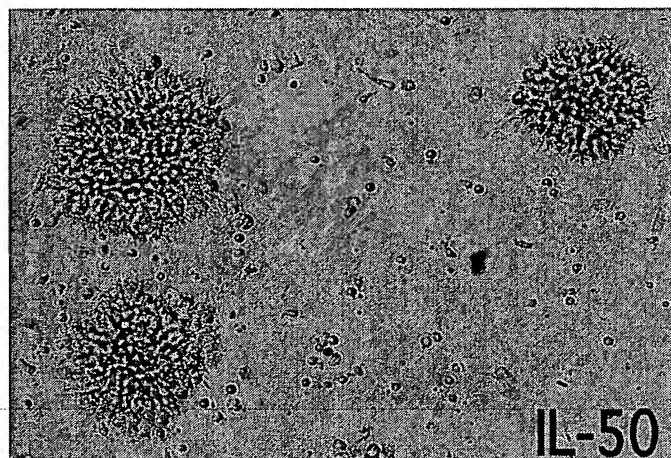


FIG. 4B

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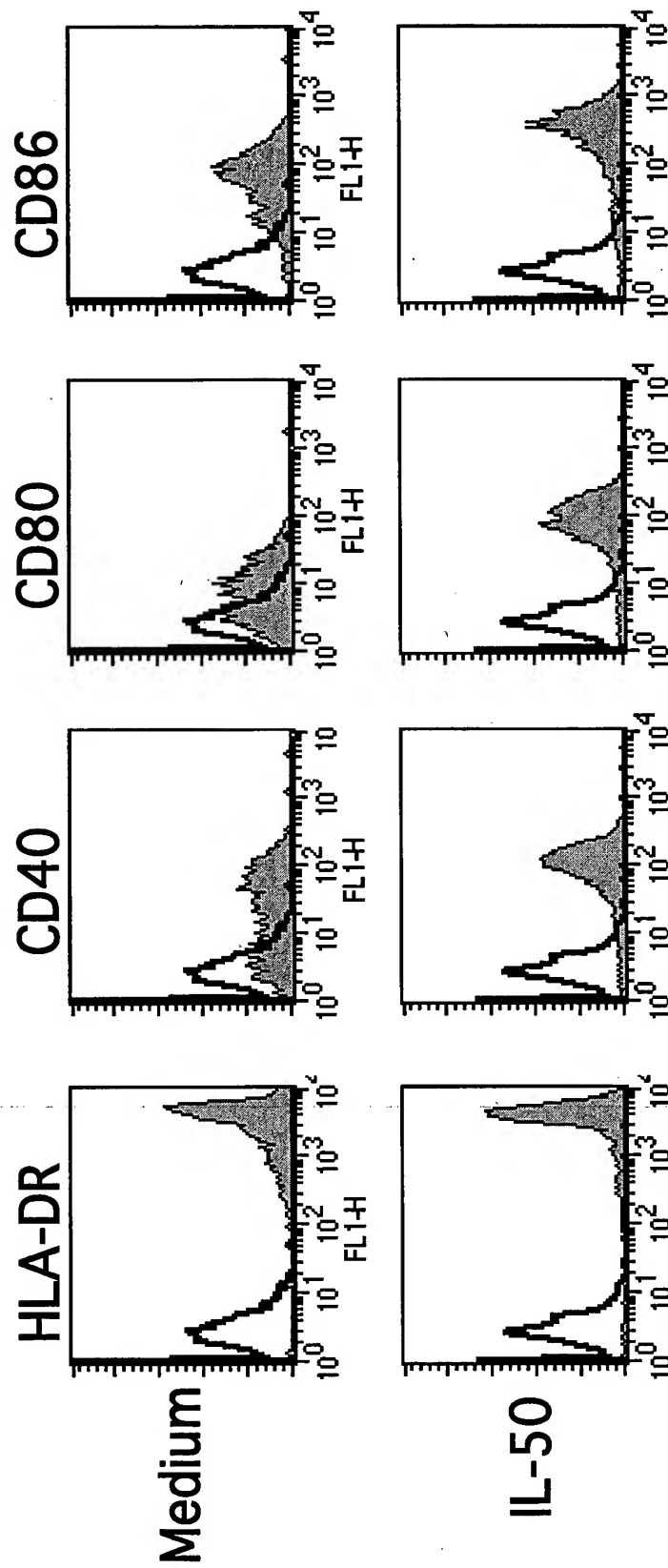


FIG. 5

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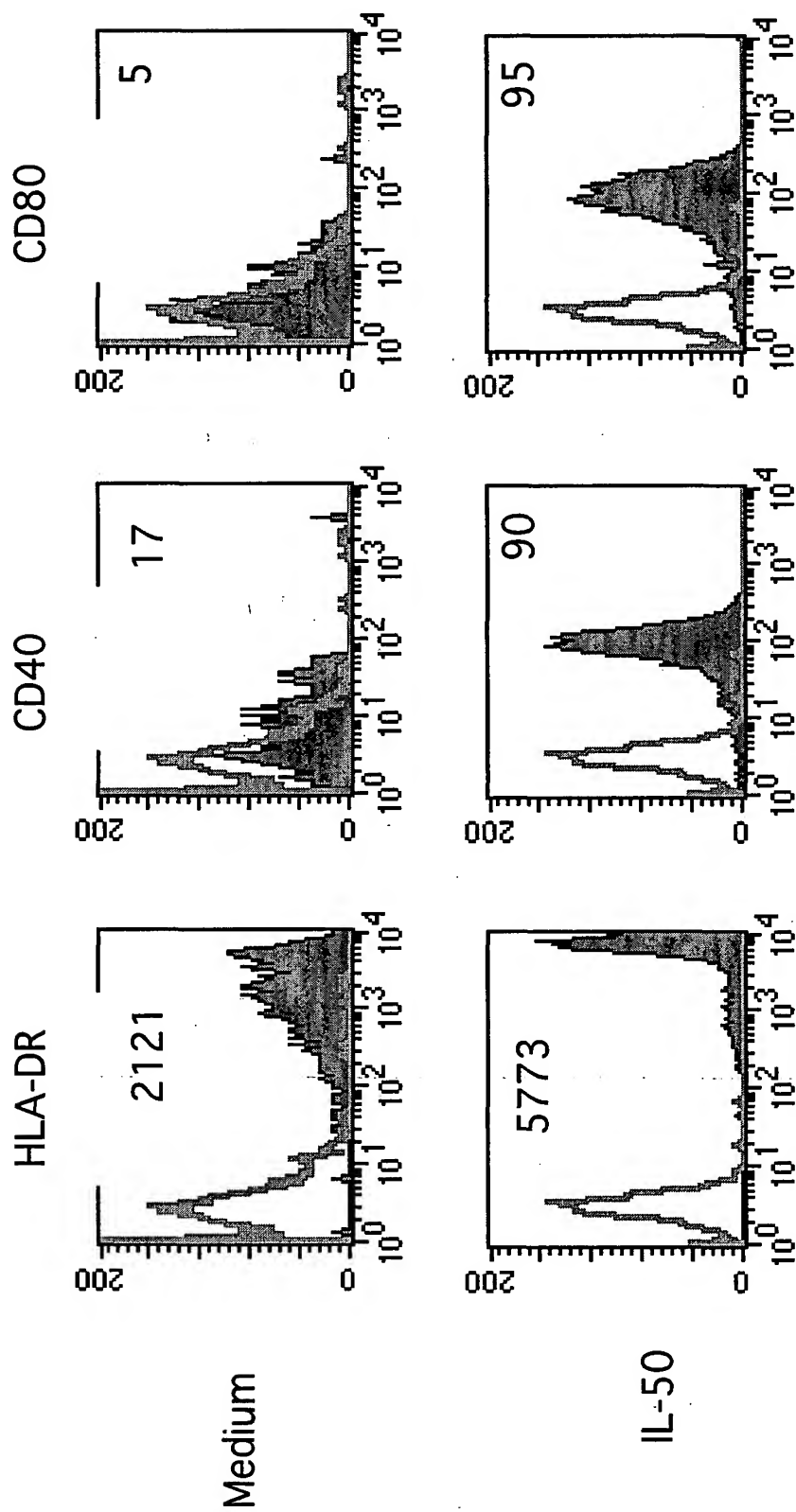


FIG. 6A

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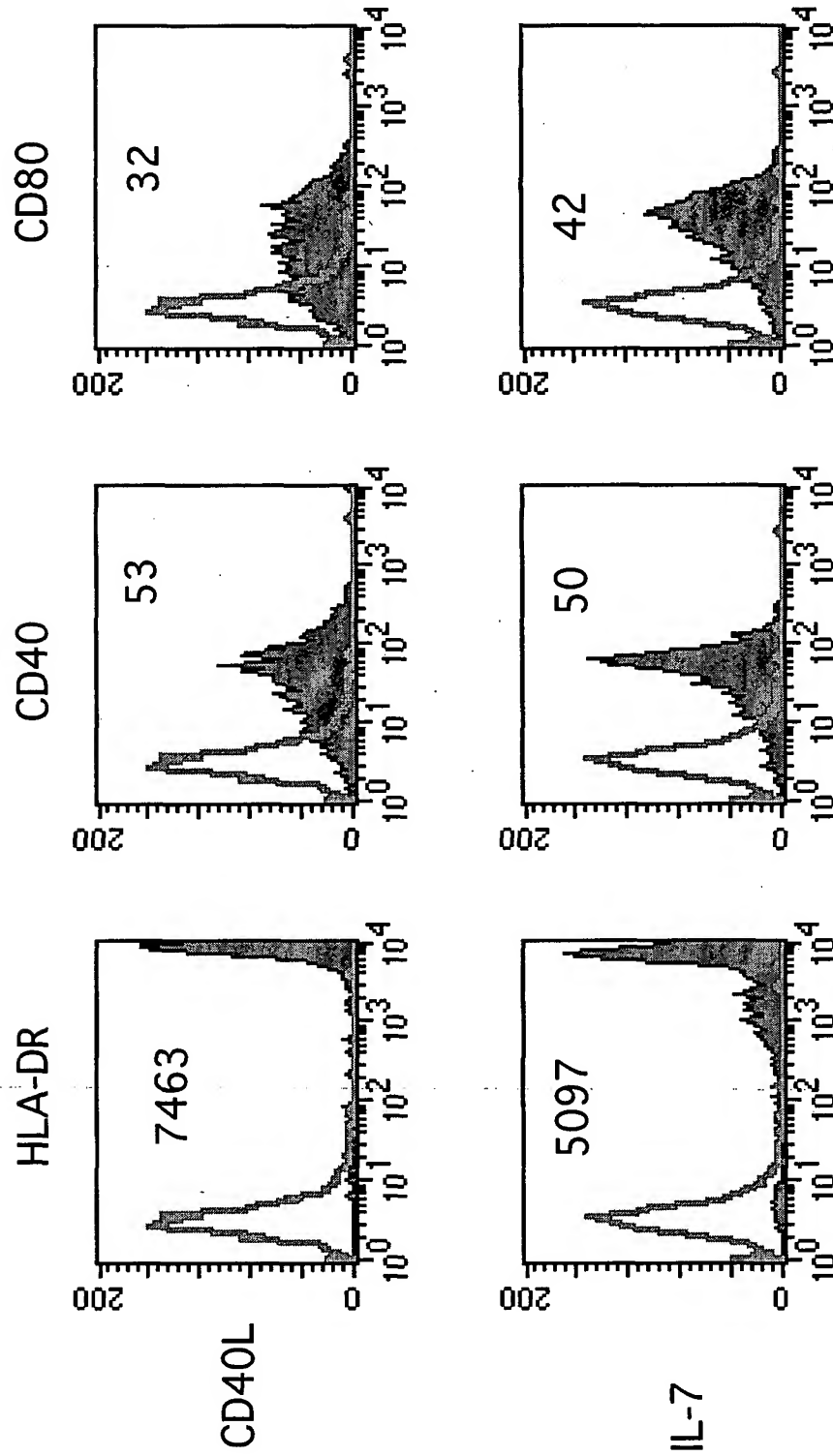


FIG. 6B

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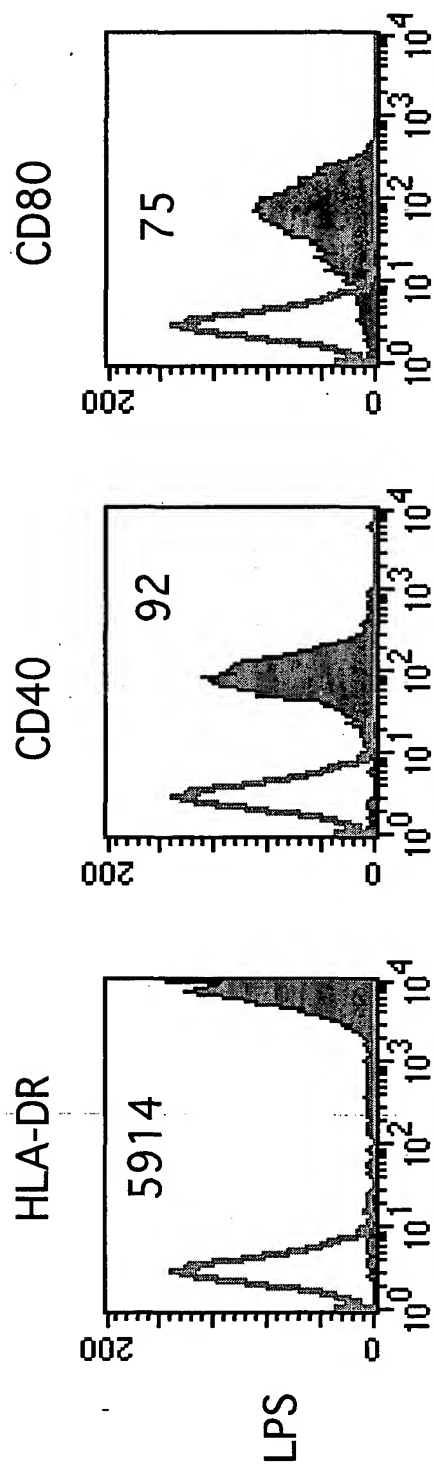


FIG. 6C

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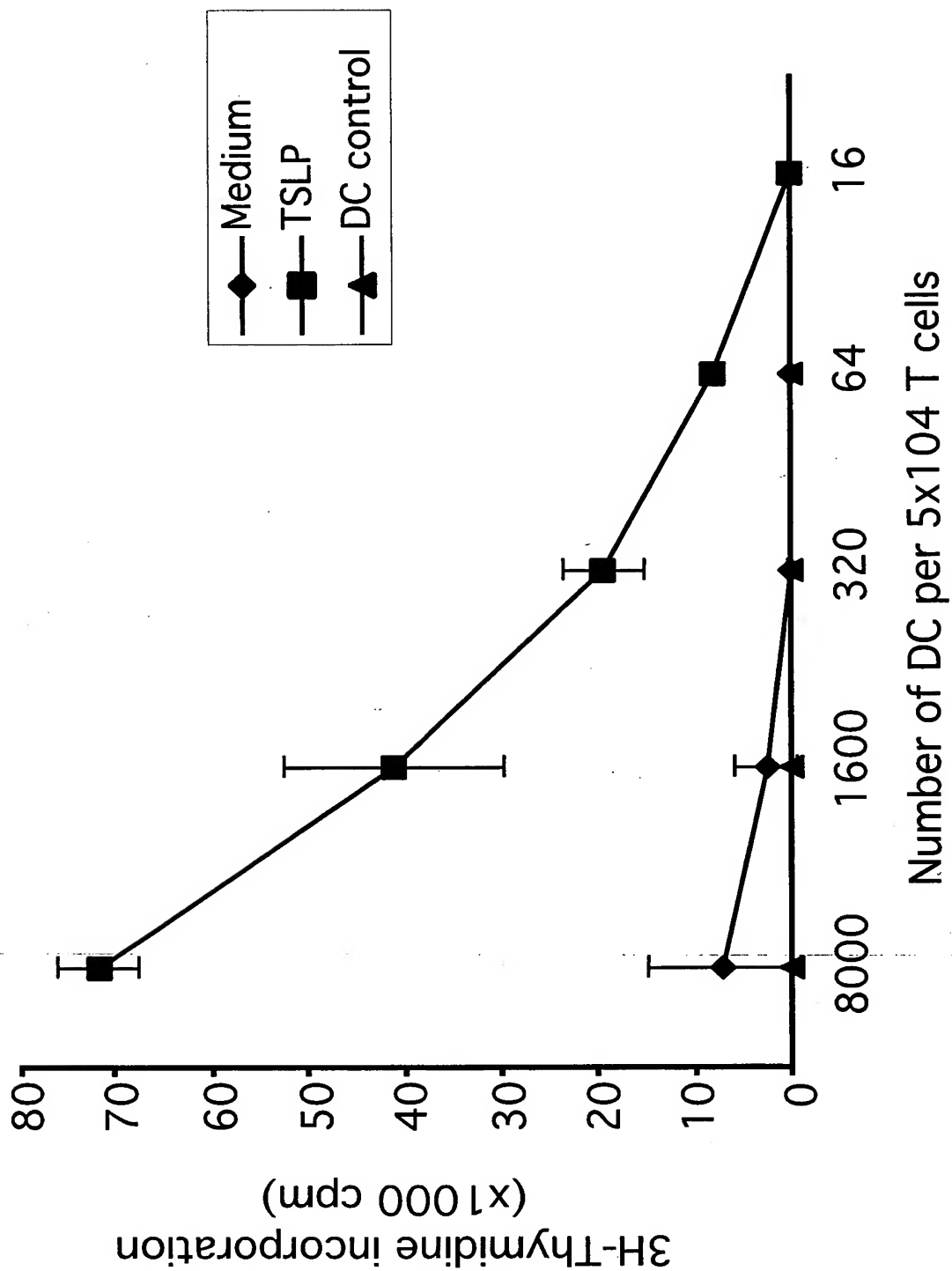


FIG. 7

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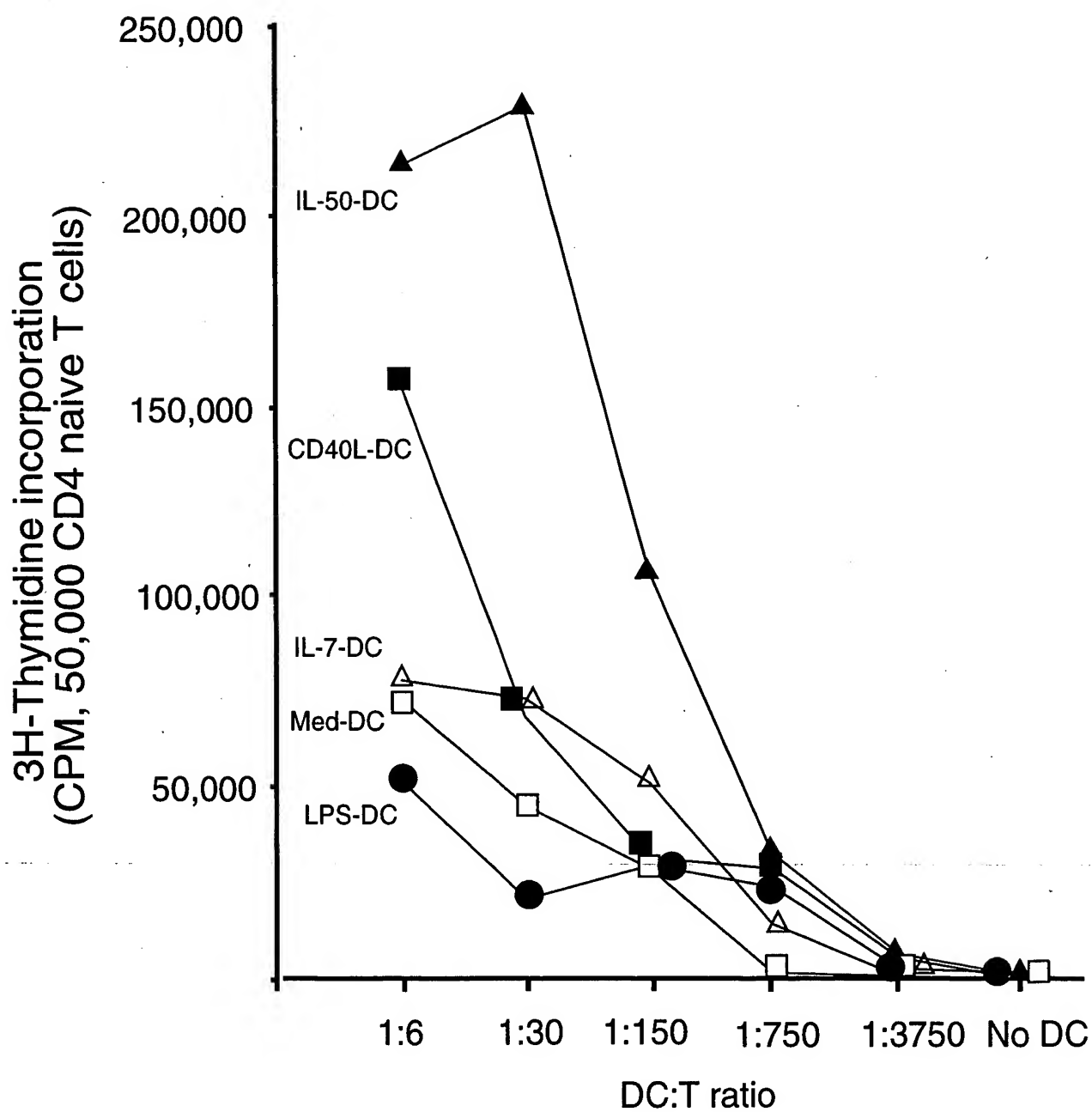


FIG. 8

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IL-4

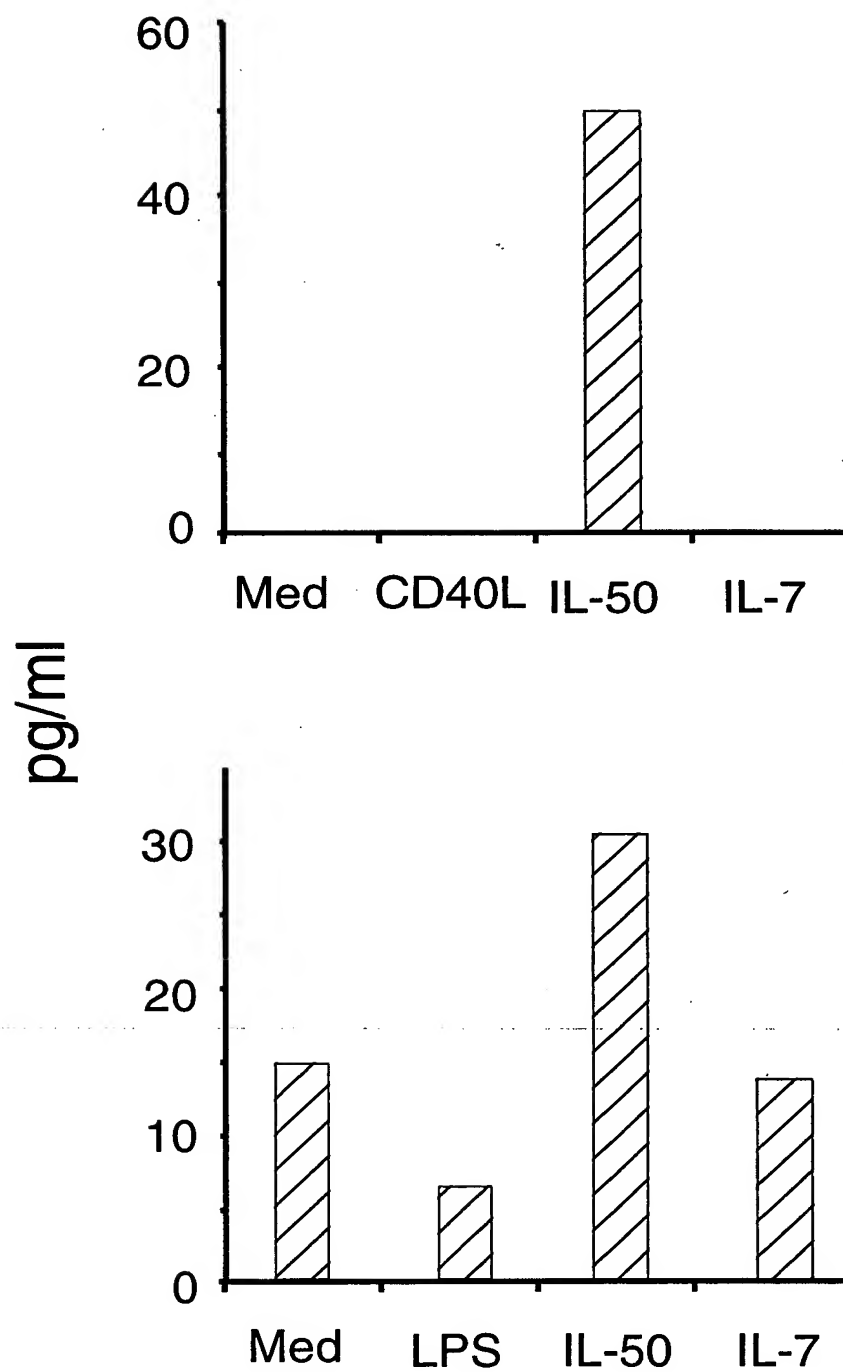


FIG. 9A

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IL-13

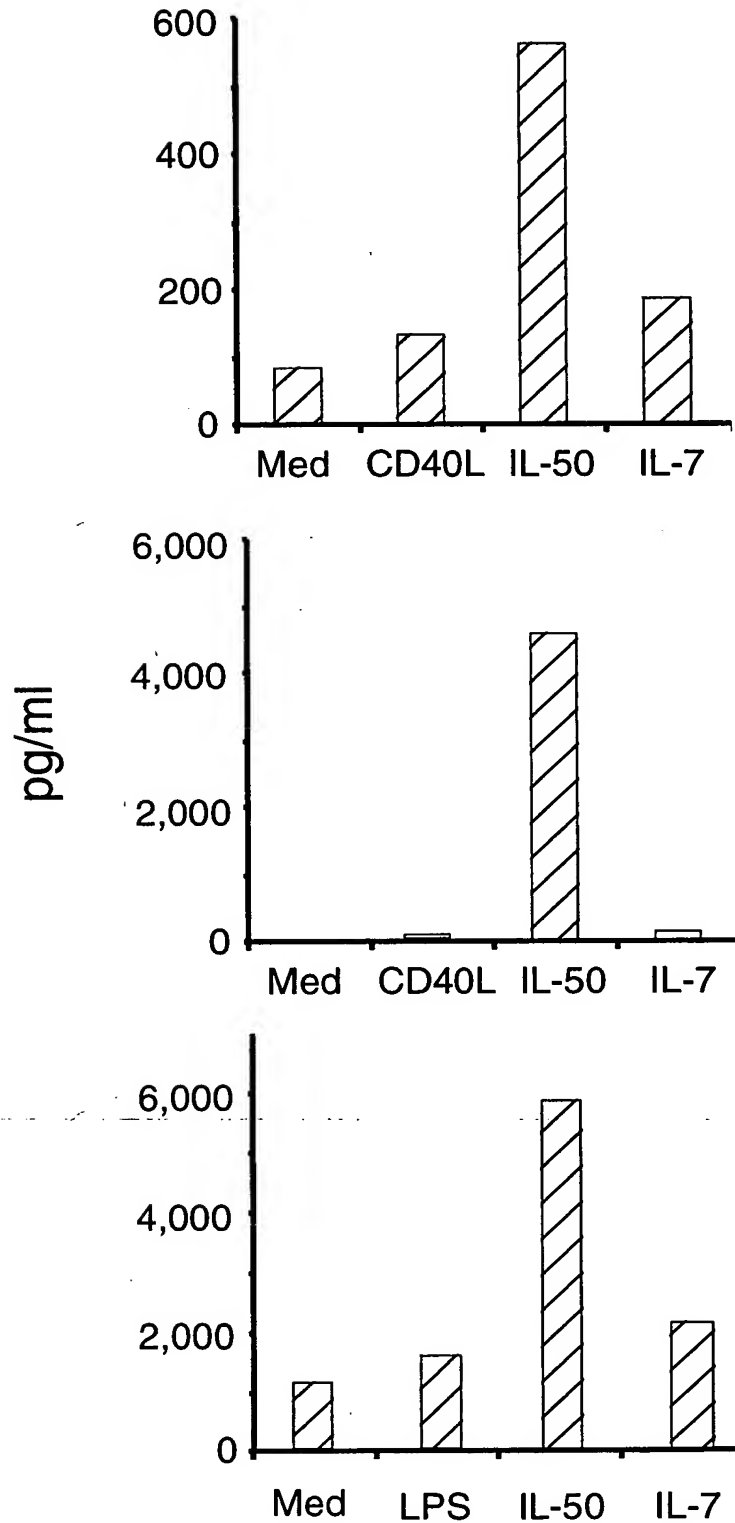


FIG. 9B

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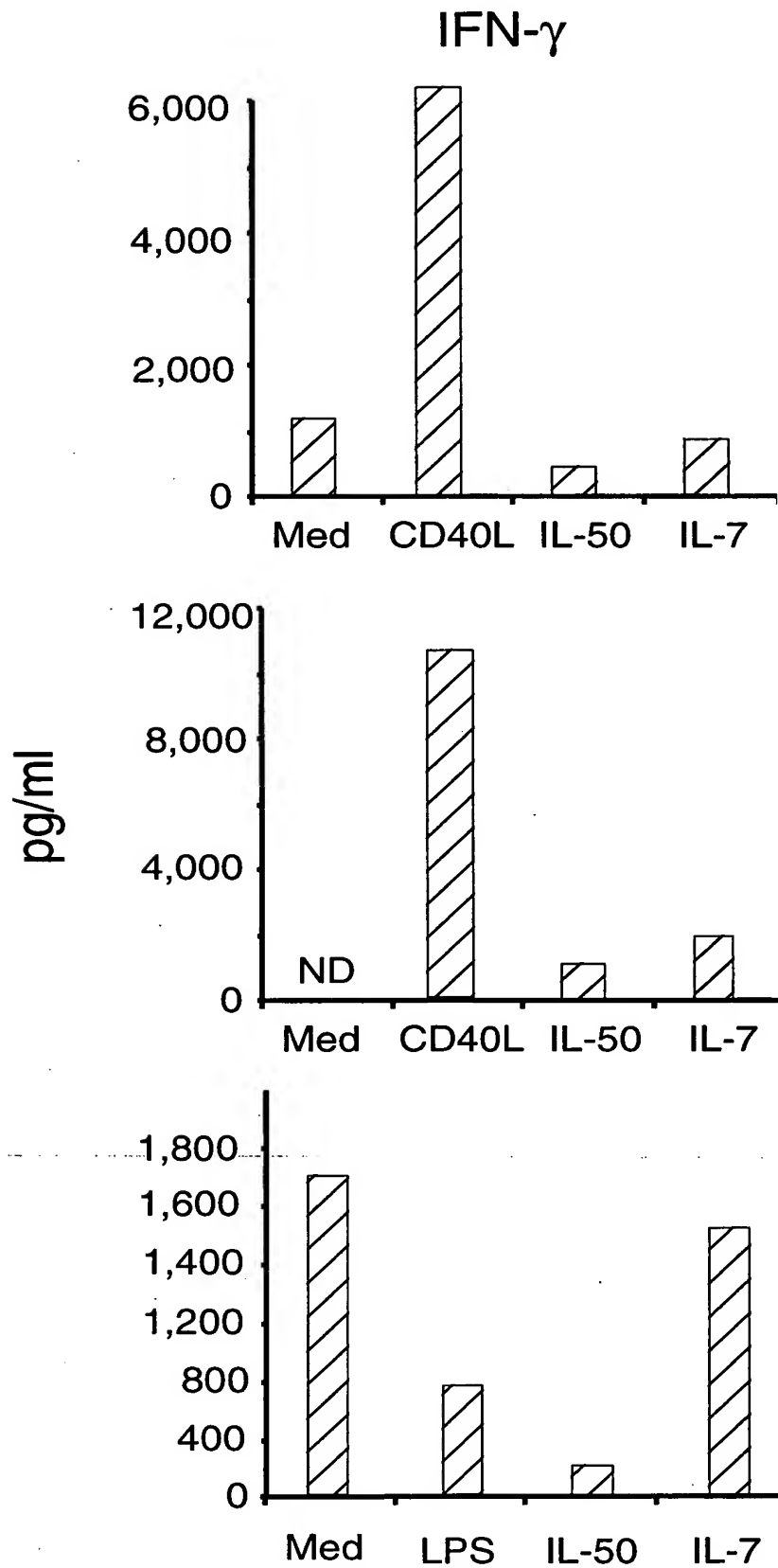


FIG. 9C

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IL-10

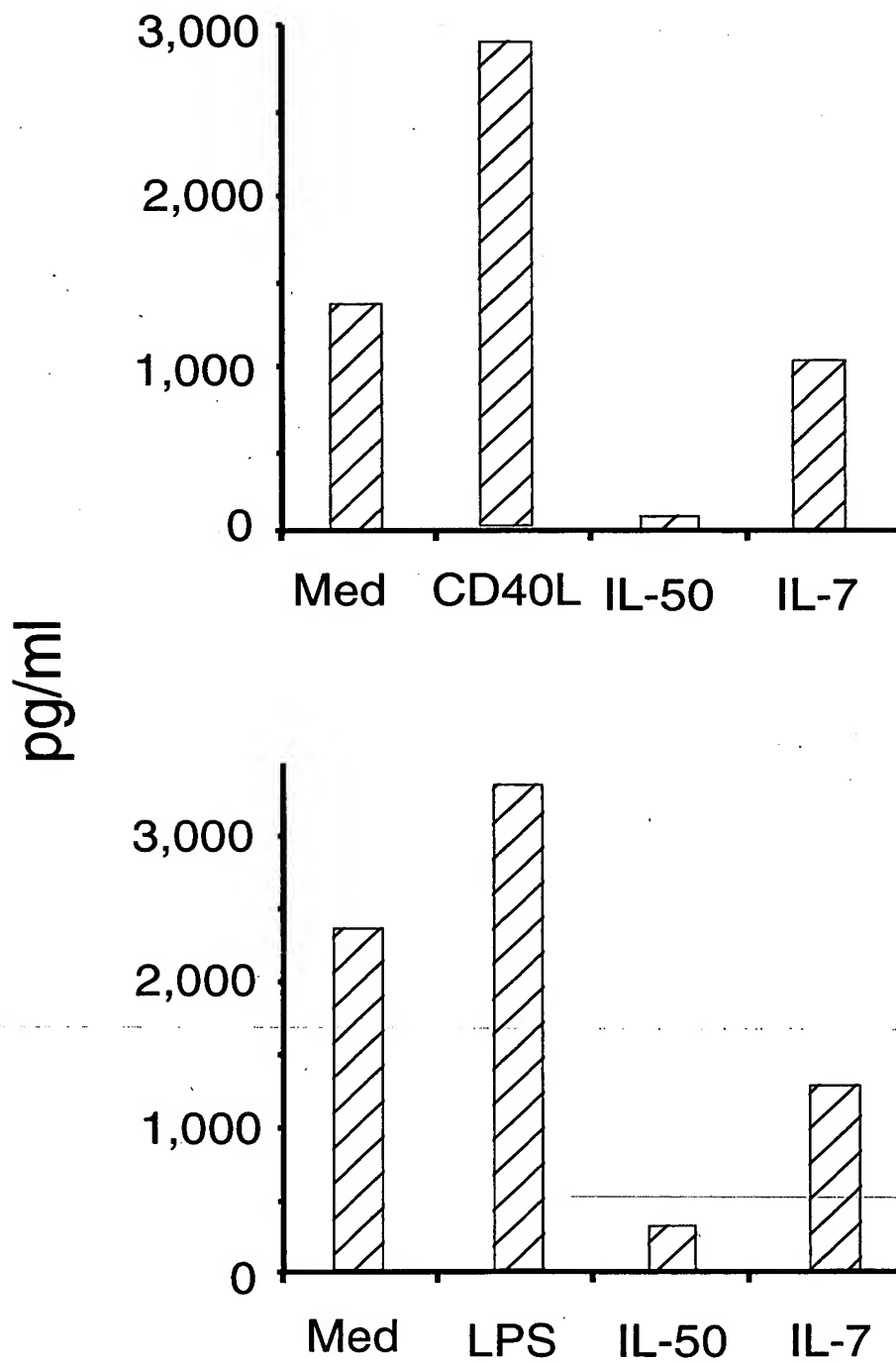


FIG. 9D

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TNF- α

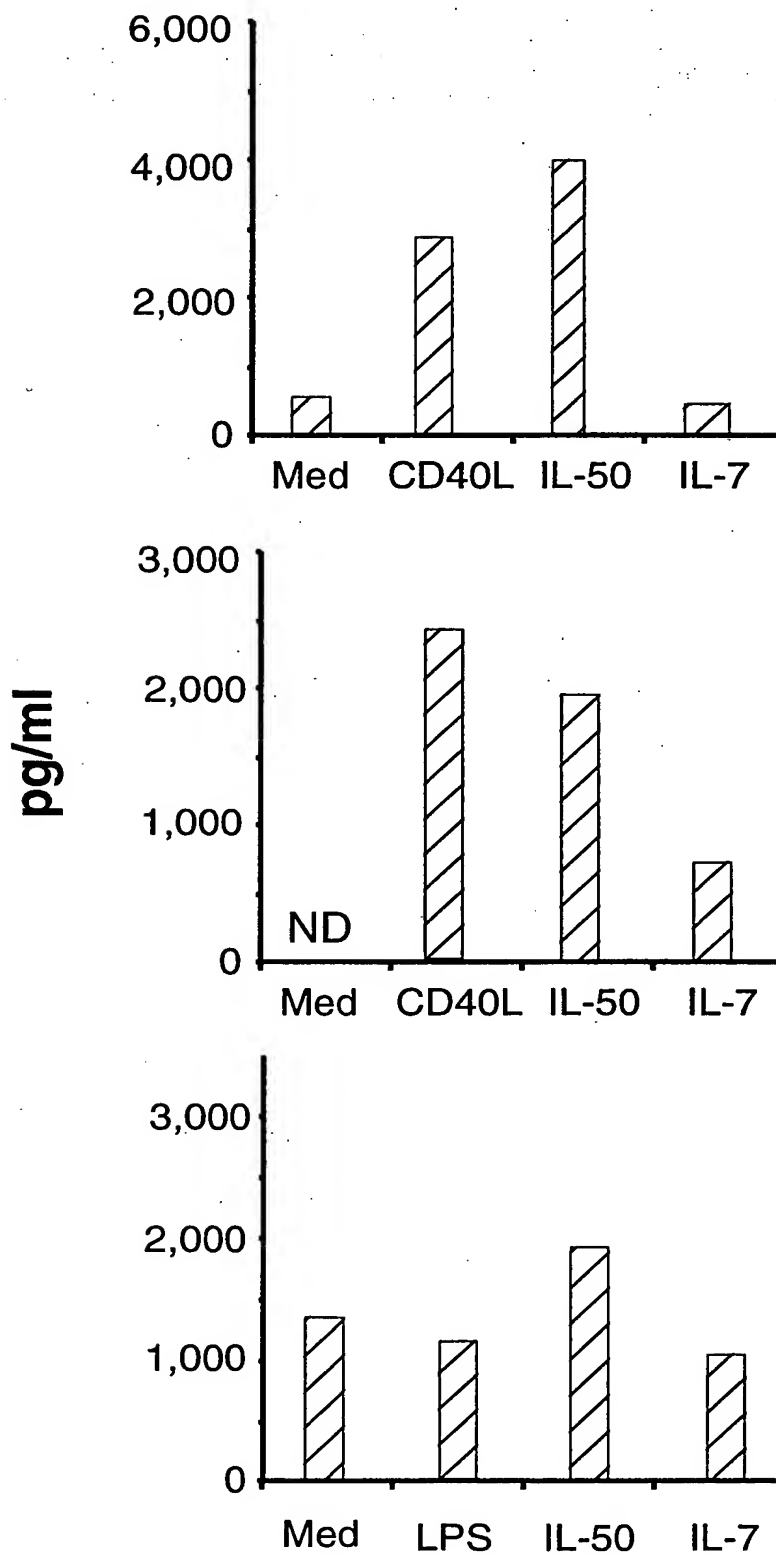


FIG. 9E

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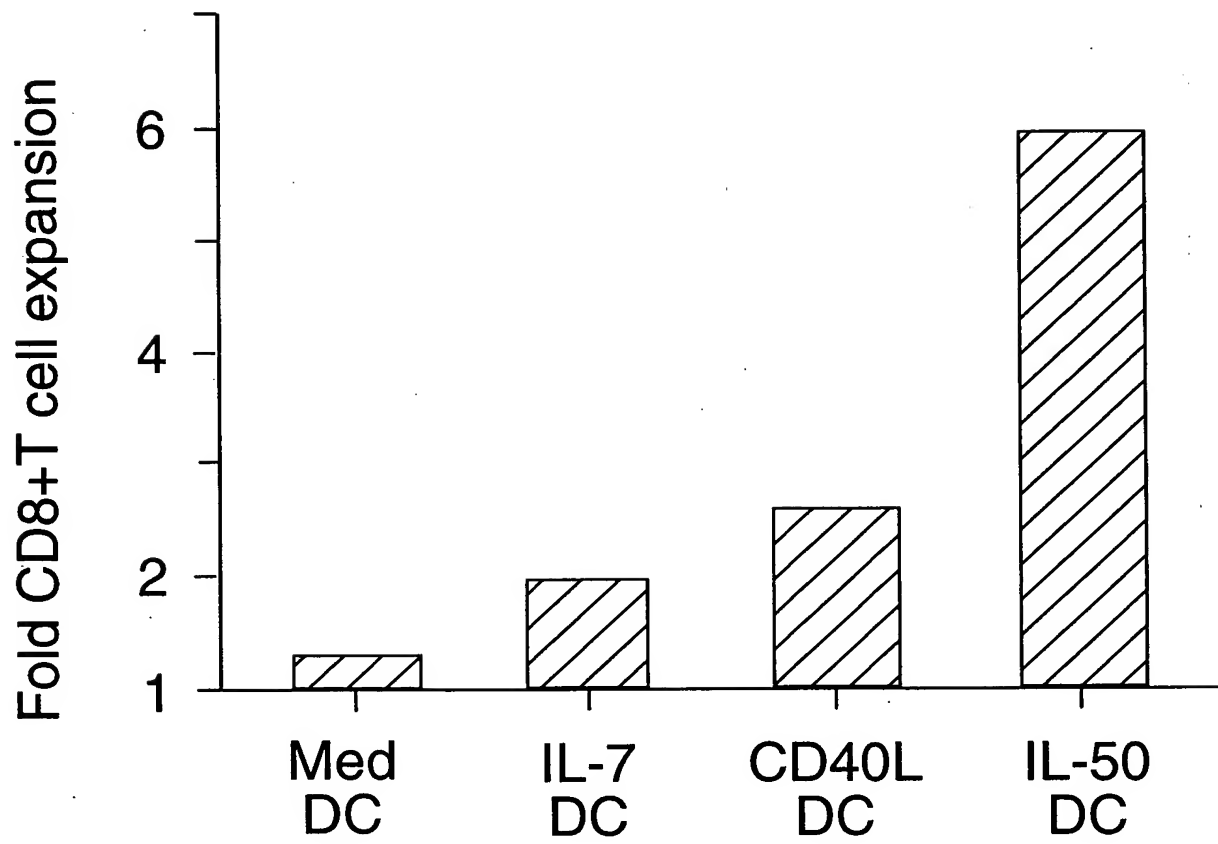


FIG. 10

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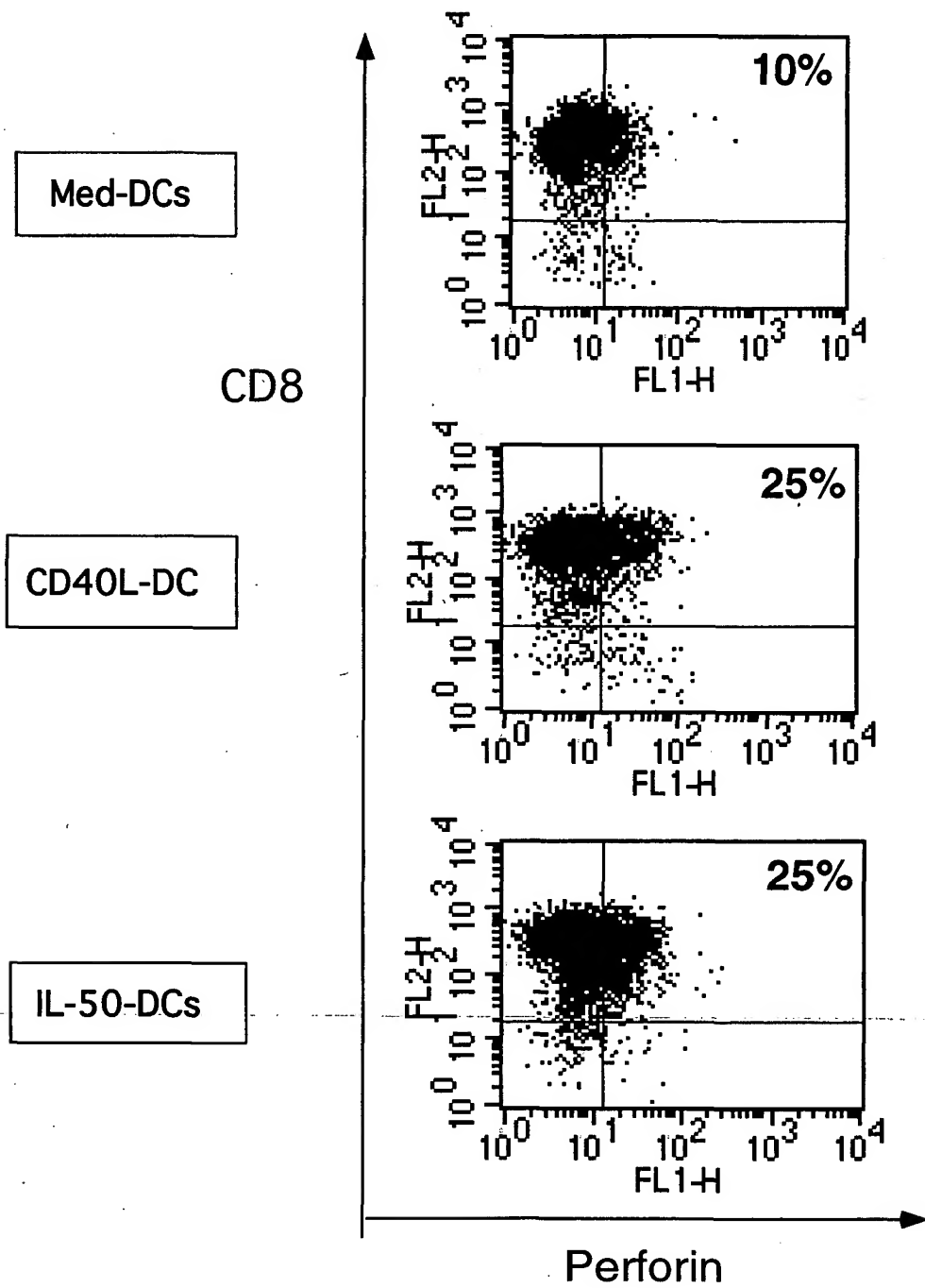


FIG. 11

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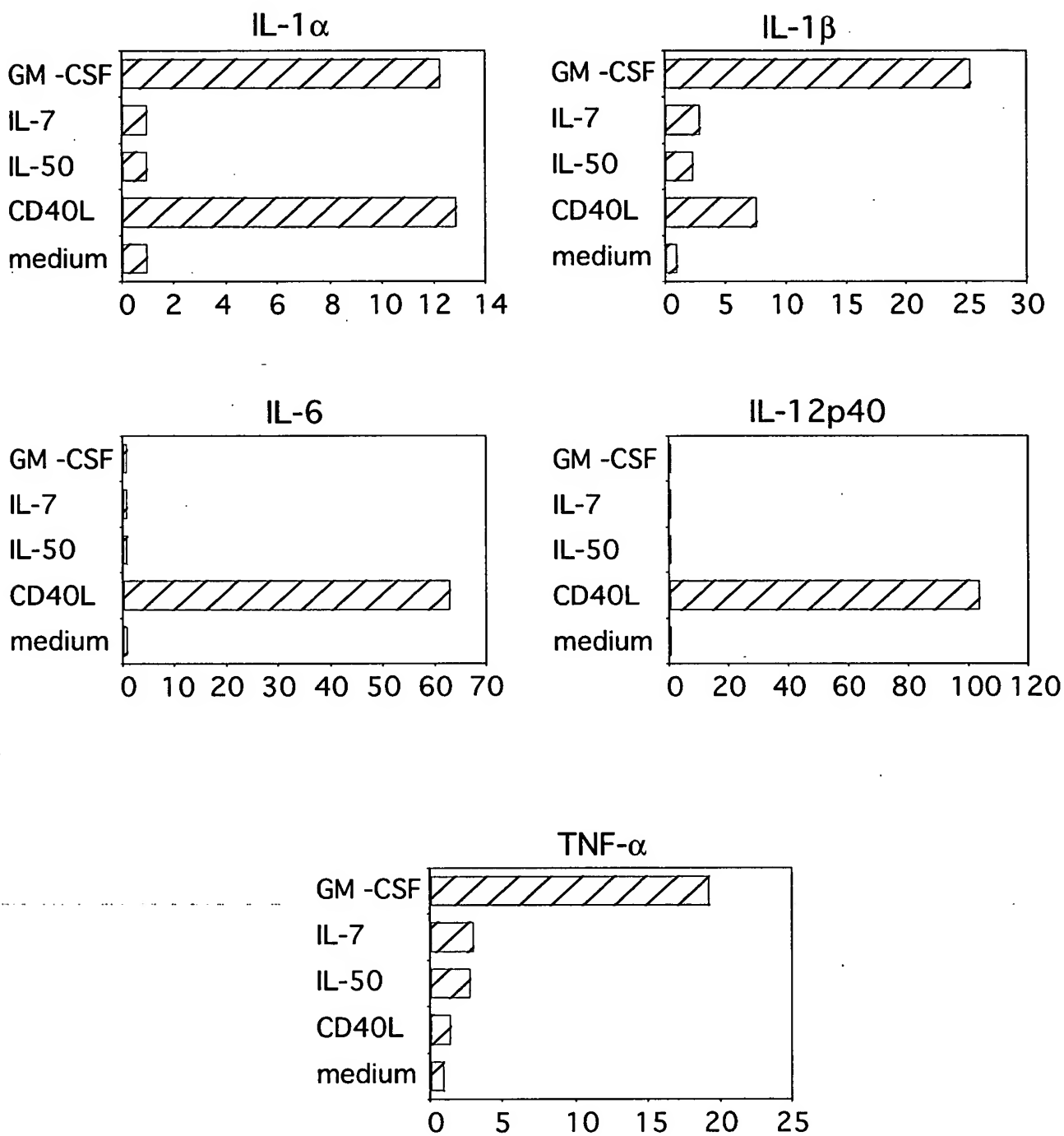
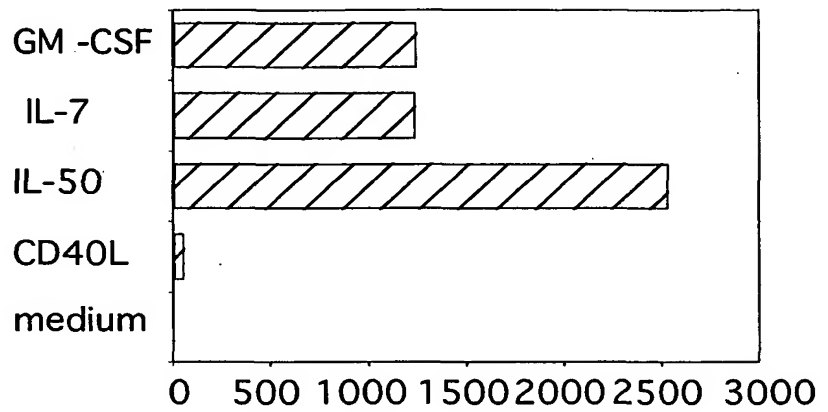


FIG.12A

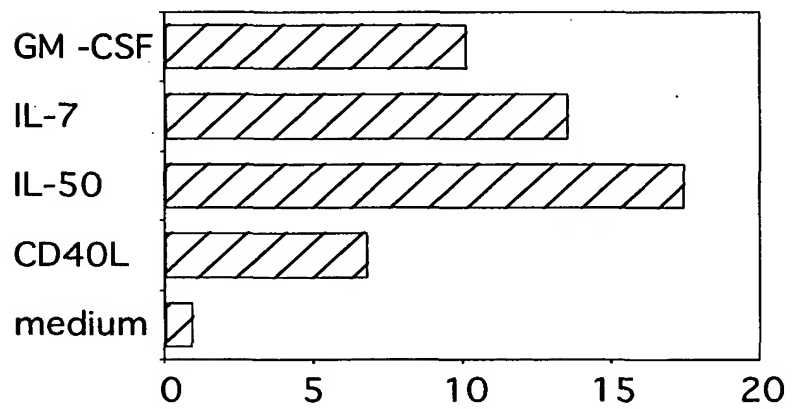
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Th2

TARC



MDC



DC+Naive

MIP3-beta

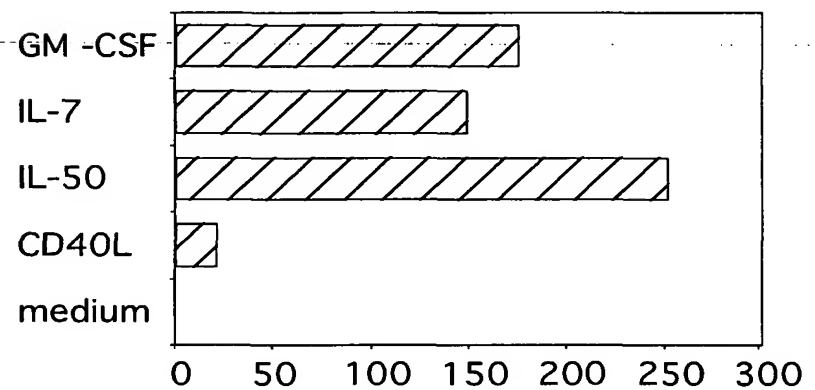
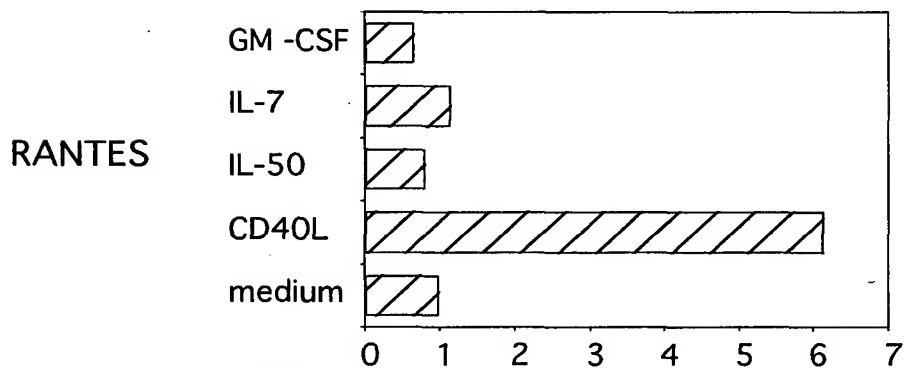
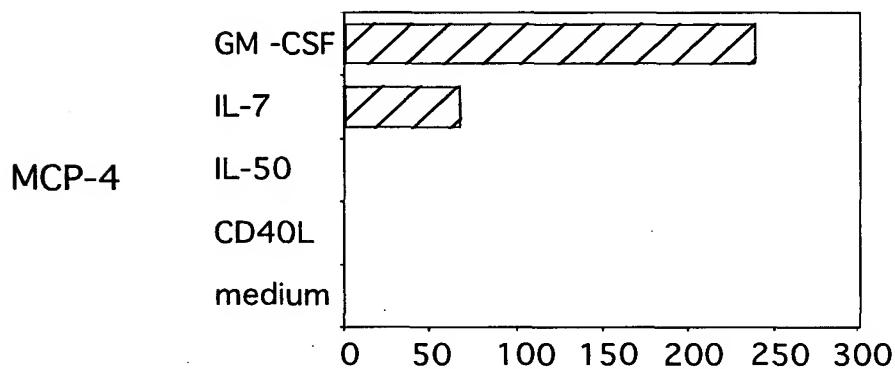
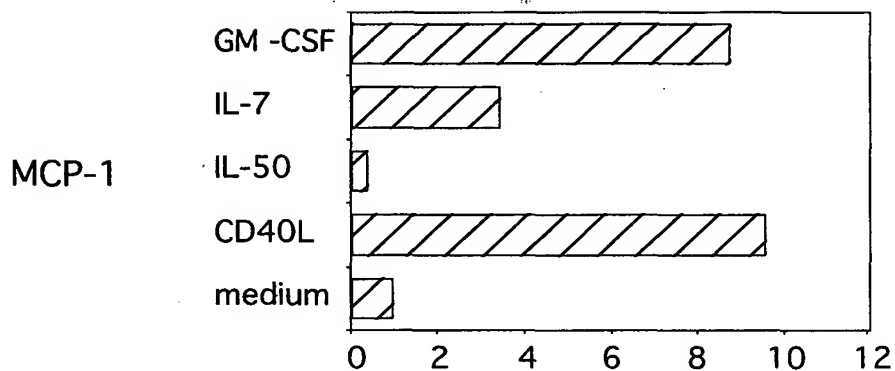


FIG. 12B

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Th2+Th1



Th1

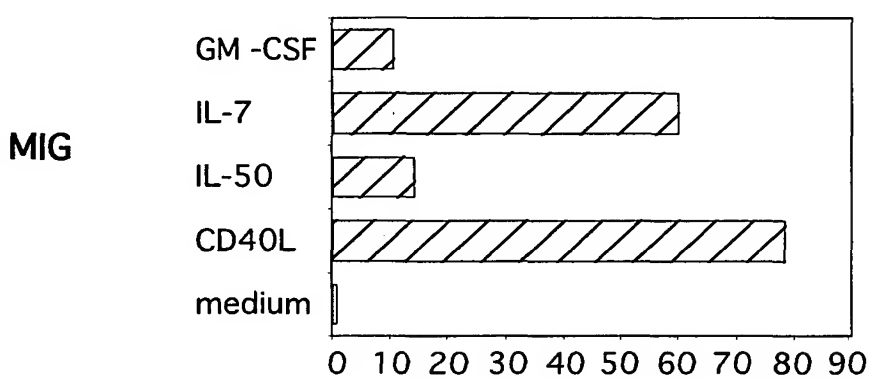


FIG. 12C

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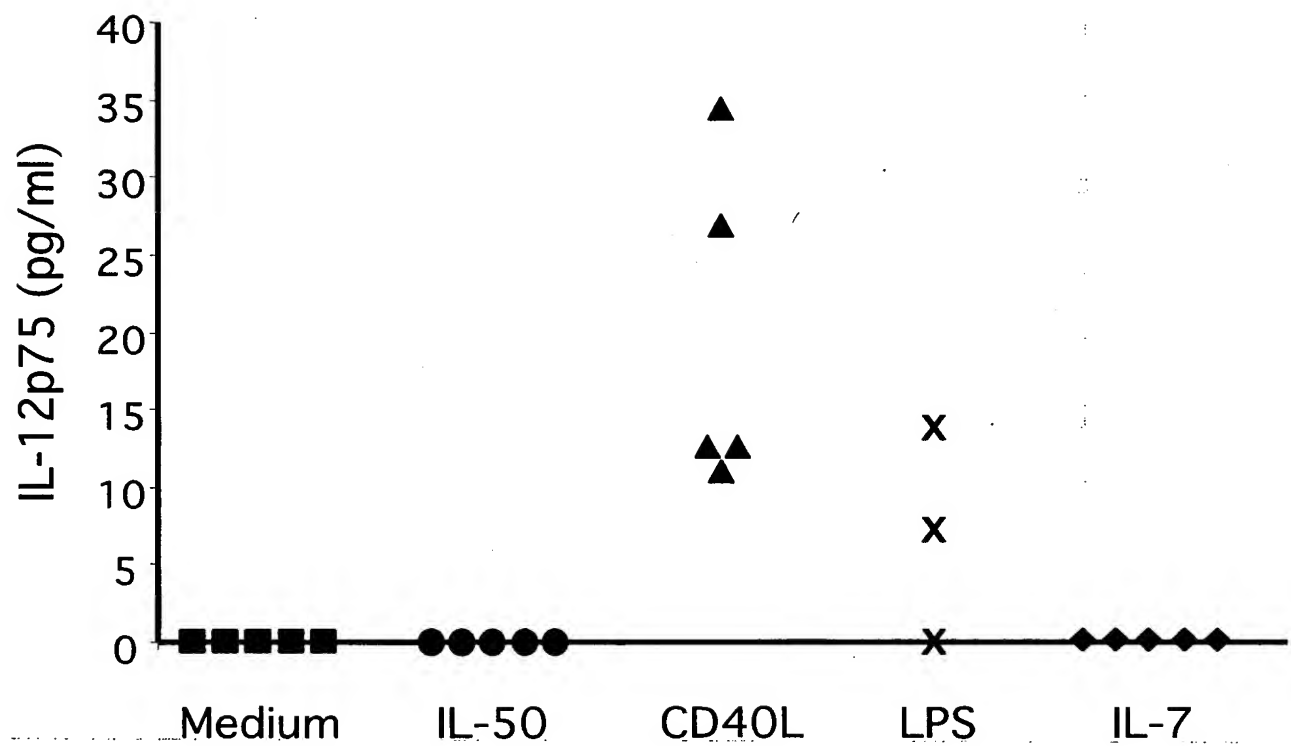


FIG. 13